



Schedule Rating Office of New Jersey  
ENGINEERING DEPARTMENT  
NEWARK, N. J.  
**Deal Borough**  
Monmouth County, New Jersey  
DECEMBER 31, 1941

**KEY**  
PROTECTED FIRE ZONE: Shown in Green.  
Note. — For description of fire protection, etc., see other side.  
Elevations range from 0 to 40 feet above mean sea level.  
Water mains 8 inches and larger in diameter  
Water mains 6 inches in diameter  
Water mains 4 inches in diameter

Fire hydrants shown thus  
Gate valves shown thus  
Fire house shown thus  
Fire apparatus designated by symbols thus:  
V Pumping engine and hose car  
H Hose car  
Q Ladders on above  
O Booster tank or tanks on above

## DEAL BOROUGH, MONMOUTH COUNTY, NEW JERSEY.

Population—Census of 1940 was 917. Estimated Summer Population 2,000.

**IN GENERAL:** Located on the New York and Long Branch Railroad and the Atlantic Ocean, south of the City of Long Branch. A seashore resort consisting mainly of large summer residences of good construction. There is one industry employing about 25. Area 1.2 square miles. Elevations range from 0 to 40 feet. Main roads concrete, others gravel in fair to good condition. No features which might seriously interfere with the response of fire apparatus.

**WATER SUPPLY:** Water for domestic and fire protection purposes is furnished by the Monmouth Consolidated Water Company, a subsidiary of the American Water Works and Electric Company, which owns supply works and distribution system. For complete information on supply works and distribution system see report with map No. 78. **Distribution System:** In one service; see map. Supply to Deal is through a 16- and 8-inch main extending south from the West End Pumping Station in Long Branch and the 36-inch main from the Newman Springs Pumping Station, and through a 20-inch main extending north and east through Neptune and Ocean Townships from the Jumping Brook and Whitesville Pumping Stations and the Corlies Avenue standpipe. Arterial system is generally good with a few dead end 4- or 6-inch lines supplying hydrants. During winter supply is obtained entirely from the 36-inch transmission main from the Newman Springs Pumping Station. **Consumption:** The average and maximum daily consumption during 1940 was 5.77 and 12.645 m.g.d. in the entire territory served (24,148 services). On December 31, 1940 there were 623 services, all of which were metered. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with about a 3½- to 4-foot cover. Newer installations are cement lined. Total length, 108,014 feet; 21.43% 4-inch, 36.30% 6-inch, 28.00% 8-inch, 12.00% 12-inch, 1.52% 16-inch, and 0.75% 20-inch. No trouble reported from frozen mains or electrolysis. **Gate Valves:** 181 on system of various makes set in manholes or iron boxes at grade. Direction of operation is not uniform. Inspection is only that which is necessitated by distribution system maintenance. **Hydrants:** 125 of Eddy, Mathews, Ludlow, and Corey makes of standard type; 13 have two 2½- and one 4½-inch outlets and 6-inch gated branches. Remainder have two 2½-inch outlets and 4-inch gated branches. Hydrants are inspected twice a year. Those operated during inspection were found to be in good condition. Hose outlets are National Standard and steamer outlets have 7 threads per inch with an outside diameter of 5½ inches. **Pressures:** Readings taken at 8 hydrants widely distributed showed pressures ranging from 72 to 77 pounds with an average of 73 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on July 23, 1941 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

Poplar Ave 150 ft. E. of Almyra Ave., 220—77—7.  
Roosevelt Ave. and Ocean Ave., 1,020—77—47.  
Morgan Ave. 500 ft. E. of Norwood Ave., 310—77—9.  
Norwood Ave. and Phillips Ave., 1,230—70—39.  
Norwood Ave. and Campbell Ct., 840—72—28.  
Runyon Ave 350 ft. W. of Norwood Ave., 900—72—\*.  
Marine Pl 350 ft. E. of Ocean Ave., 940—70—18.  
Sydney Ave. 200 ft. E. of Richmond Ave., 680—72—21.  
\* No reading taken.

**FIRE DEPARTMENT:** A volunteer organization of one company under the control of the borough which owns house and all apparatus except hose car, and appropriated \$6,430 for the support of the department in 1941. There is one full-paid driver who works 37 hours on and 11 hours off. He is allowed two weeks vacation during which a substitute is provided and lives on second floor of fire house. Total volunteer membership 40 of whom about 20 are available at all

times. There are a chief, a first and second assistant chief, captain and first and second lieutenants who are elected annually by the company and approved by the borough. **Company—Deal Volunteer Fire Company No. 1:** Located on Brighton Avenue near Norwood Avenue. Building is a 2-story brick and frame structure with a composition and slag roof, concrete apparatus floor, steam heat, electric lights, telephone, and hose tower. **Equipment:** A 1919 Ahrens Fox 750-g.p.m. triple combination pumping engine carrying a 40-gallon booster tank, 200 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. A 1941 Mack 500-g.p.m. quadruple combination pumping engine carrying a 200-gallon booster tank, 150 feet of booster hose, 800 feet of 2½-inch hose, 10 ladders ranging from 10 to 50 feet and totaling 219 feet, 6 salvage covers, and good minor equipment. A 1934 Diamond T hose car carrying 1,000 feet of 2½-inch hose, 2 short ladders, and little minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested monthly at 250 pounds, shifted at fires and drills and dried in hose tower. There is a total supply of 3,350 feet of which about one third is over five years old and 550 is held in reserve. **Operations:** Department governed by borough ordinance and company by-laws. Chief has full control of apparatus at all times and of men at fires and drills. He can prefer charges to company. Motors are started twice a day. There are 5 members of the department who drive the apparatus. **Drills and Training:** Drills held monthly under supervision of chief consist of hose laying, pump operation, ladder raising, and use of equipment. **Fire Methods:** Booster streams used on incipient fires reinforced by hydrant lines with shut-off nozzles. Engine seldom hooks up. Two gas masks and 6 salvage covers are provided, but no heavy stream appliances are carried. **Response to Alarms:** Entire department responds to all alarms in borough. Outside aid may be secured from Long Branch and Allenhurst. **Building Inspection:** None by department. **Records and Reports:** Captains keep a record of all fires including time, location, amount of equipment used, and cause. Chief submits an annual report to borough. **Fire Alarms:** Alarms of fire are telephoned through the Asbury Park Exchange to the fire house and are sounded from there on an air horn by means of a Gamewell breakwheel transmitter with 25 wheels for various locations throughout the borough. Current for operation of the system is supplied by a rectifier with a battery of 6 cells floating, mounted on standard rack. Equipment is located on apparatus floor.

**POLICE DEPARTMENT:** Consists of a chief, a captain, 3 sergeants, and 4 patrolmen working in 8 hour shifts. Three radio cars are provided. Patrolmen respond to alarms of fire and report unauthorized building construction to building inspector.

**BUILDING LAWS:** Code adopted in January, 1921 provides for the annual appointment of the building inspector and requires that plans be submitted before permits are granted. Fire limits are not established and combustible roof coverings are allowed throughout the borough. Code does not conform to that recommended by the National Board of Fire Underwriters.

**EXPLOSIVES AND FLAMMABLES:** Code adopted September 13, 1931 and amended April 24, 1940 closely follow the Code of Suggested Ordinances as recommended by the National Board of Fire Underwriters. Enforcement is under the supervision of the police department. State laws adequately cover the storage and shipment of explosives and flammables and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

**ZONING ORDINANCE:** Adopted February 16, 1933